



Application No: 10/783,417
Amendment Dated: May 12, 2006
Reply to Office Action of February 16, 2006
REPLACEMENT SHEET

axmi006 -----MNQNNNDNNEYEIIDSHSTSPYFPNRRNSNDSRYPYTNNPNQPLQNTNYKEWLNMCQGN 56
cry1Aa -----MDNNPNINECIPYN---CLSNPE-----VEVL 24
cry1Ac -----MDNNPNINECIPYN---CLSNPE-----VEVL 24
cry1Ia -----MKLKNQDKHQSFSSNAKVDKISTDS---LKNETDIELQININHEDCLKMSEYE 49
cry3Aa1 MIRKGGGRKMNNRSEHDTIKTTENNEVPTNHVQYPLAETPNPTLEDLNYKEFLRMTADN 60
cry3Ba MIRMGGGRKMNNRSEYDTIKVTPNSELPTNHNQYPLADNPNSTLEELNYKEFLRMTADN 60
cry4Aa ---MNPYQNKNEYETLN--ASQKKLNISNNYTRYPIENSPKQLLOSTNYKDWLNMCQON 54
cry6Aa -----
cry7Aa -----MNLNNLD--GYEDSNRTLNNSLNYP---TQKALSPSLKMNMYQDFLSITERE 47
cry8Aa -----MSPNNQNEYEIIDATPSTSVSSDSNRYPFANEPTDALQNMNYKDYLMKSGGE 52
cry10Aa ---MNPYQNKNEYEIFN--APSNFSGSKSNYSRYPLANKPNQPLKNTNYKDWLNVCQDN 54
cry16Aa ---MHYYGNRNNEYDILN--ASSNDSNMSNTYPRYPLANPQQDLMQNTNYKDWLNVCQDN 54
cry19Ba ---MNSYQNKNEYEILD--AKRNTCHMSNCPKYPLANDPQMYLRNTHYKDWLNVCQDN 54
cry24Aa ---MNQYQNKNEYEILE-----SSQNNMMPNRYPFADDPNAVMMKNGNYKDWVNECEGS 51

axmi006 TQYGDNFETFASADTIAAVSAGTIVSGTLLAGIGGLTSISGPIGIIGAIISFGTLIT-- 114
cry1Aa G-----GERIETGYTPIDISLSLTQFLLSEF-VPGAGFVLG-----LVDIIWG-- 66
cry1Ac G-----GERIETGYTPIDISLSLTQFLLSEF-VPGAGFVLG-----LVDIIWG-- 66
cry1Ia N-----VEPFVS-ASTIQTGIGIAGKILGTGLGVFPFAGQVAS-----LYSFILG-- 91
cry3Aa1 N-----TEALDSSTTKDVIQKGISVVGDLGVLGVFPFAGALVS-----FYTNFLN-- 105
cry3Ba S-----TEVLDSSTVKDAVGTGISVVGQILGVGVFPFAGALTS-----FYQSFLN-- 105
cry4Aa QQYGGDFETFIDSG---ELSAITIVGTVLGTGFGFTTPLG-----LALIGFGTLIP-- 102
cry6Aa -----MIIDSKTTLPRHSLIHTIKLNSNKKYGPDMTN-----GNQFIISKQ 42
cry7Aa Q-----PEALASGNTAINTVSVTGATLSALGVPGASFITN-----FYLKIAG-- 90
cry8Aa NP-ELFGNPETFIS-SSTIQTGIGIVGRILGALGVFPFASQIAS-----FYSFIVG-- 100
cry10Aa QQYGNNAAGNFASSETIVGVSAIIVGTMLGAFAAPVLAAG-----IISFGTLLP-- 104
cry16Aa H-----IENPREASVRAGLGKGLGIVSTIVGFFGGSIIIDTIG-----LFYQISE-- 99
cry19Ba S-----YASSGPSQL---FKVGSIVAKILG-----MIPEVGP-----LLSWMVS-- 91
cry24Aa N-----ISPSPAAITSKIVSIVLKTAKAVASSLAD-----SIKSS-- 88

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axmi006 VFWPAGEQDKTVWTQFIKMGEIFVDTPLTESIKQLKLQTLLEGFRQILQ-SYNTALDDWRK 173
cry1Aa IFGPS--Q---WDAFPVQIEQLINQRIEEFARNQAISRLEGLSNLYQ-IYAESFREWEA 119
cry1Ac IFGPS--Q---WDAFLVQIEQLINQRIEEFARNQAISRLEGLSNLYQ-IYAESFREWEA 119
cry1Ia ELWP---KGKNQWEIFMEHVEEIIINQKISTYARNKALTDLKGLGDALA-VYHDSLESWVG 147
cry3Aa1 TIWPS--E--DPWKAFMEQVEALMDQKIADYAKNKALAEQGLQNNVE-DYVSALSSWQK 160
cry3Ba AIWPS--DA-DPWKAFMAQVEVLIDKKIEEYAKSKALAEQGLQNNFE-DYVNALDSWKK 161
cry4Aa VLFPAQDQS-NTWSDFITQTKNIIKKEIASTYISNANKILNRSFNVIS-TYHNHLKTWE- 159
cry6Aa E-----WATIGAYIQTGLGLPVNEQQRLRTHVNLSQDISIPSD--FSQLYDVYCS 89
cry7Aa LLWPE--NGKI-WDEFMTEVEALIDQKIEEYVRNKAIAELDGLGSALD-KYQKALADWLG 146
cry8Aa QLWPS--KSVDIWGEIMERVEELVDQKIEKYVKDKALAEKGLGNALD-VYQOSLEDWLE 157
cry10Aa IFWQGS DPA-NVWQDLLNIGGRPIQ-EIDKNIINVLTSTIVTPIKNQLD-KYQEFFDKWEP 161
cry16Aa LLWPEDDTQQYTWQDIMNHVEDLIDKRITVIRGNARTLADLQGVKVD-DYNNWLKKWKD 158
cry19Ba LFWPTIEEKNVWEDMIKYVANLLKQELTNDTLNRATSNLSGLNESLN-IYNRALAAWKQ 150
cry24Aa LGISKTTITENNVSVQSMVQVHQIINRRIQETILDLGESSLNLGLVAIYNRDYLGALAEAWN 148

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Fig. 1A

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axmi006 LKRLQAPGLPPSSALQQAALTLKIRFENVHNDFFIREIPG--FQLETYKTL LLPIYAQAAN 231
cry1Aa -----DPT---NPALREEMRIQFNDMNSALTTAIPLLAVQ-----NYQVPLLSVYVQAAN 166
cry1Ac -----DPT---NPALREEMRIQFNDMNSALTTAIPLFAVQ-----NYQVPLLSVYVQAAN 166
cry1Ia -----NRN---NTRARSVVKSQYIALELMFVQKLPSFAVS-----GEEVPLLPPIYAQAAN 194
cry3Aa1 -----NPVSSRNPHSQGRIRELFSQAESHFRNSMPSFAIS-----GYEVLFLT TYAQAAN 210
cry3Ba -----APVNLRSRRSQDRIRELFSQAESHFRNSMPSFAVS-----KFEVLFLPT YAQAAN 211
cry4Aa ----NNPNPQNTQDVRTQIQLVHYHFQNVIPELVNSCPPNPSCDYNNILVLSSYAQAAN 215
cry6Aa -----DKTSAEWWNKLYPLIIKSANDIASY-----GFKVAGDPSIKKDG- 129
cry7Aa -----KQD---DPEAILSVA TEFRIIDSLFEFSMPSFKVT-----GYEIPLLTVYAQAAN 193
cry8Aa -----NRN---DARTRSVVSNOFIALDLNFVSSIPSFAVS-----GHEVLLLAVYAQAAN 204
cry10Aa -----ARTHANAKAVHDLFTTLEPIIDKDLMLKN---NASYRIPTLPAYA QIAT 208
cry16Aa -----DPKSTGNLSTLVTKFTALDSDFNGAIRTVNQGPS-----GYELLLL PVYAQIAN 208
cry19Ba ----NKNNFASGELIRSYINDLHILFTRDIQSDFSLG-----GYETVLLPSYASAAN 198
cry24Aa -----NKSININYQTNVAEAFKTVEREFFTKLKG IYRTS----SSQITLLPTFTQAAN 196

axmi006 FHLNLLQQAELADEWNADIIHPSQIEPNAGTSDDYYK-LLKENIPKYSNYCANTYRTGLK 290
cry1Aa LHLSVLRDVS VFGQRWGFDA-----ATINSRYNDLTRLIGNYTDYAVRWYNTGLE 216
cry1Ac LHLSVLRDVS VFGQRWGFDA-----ATINSRYNDLTRLIGNYTDYAVRWYNTGLE 216
cry1Ia LHLLLLRDASIFGKEWGLSS-----SEISTFYNRQVERAGDYS DHCVKWYSTGLN 244
cry3Aa1 THLFLLKDAQIYGE EWGYEK-----EDIAEFYKRQLKLTQEYTDHCVKWYNVGLD 260
cry3Ba THLLLLLKDAQVFGEEWGYSS-----EDIAEFYQRQLKLTQQYT DHCNVWYNVGLN 261
cry4Aa LHLTVLNQAVKFEAYLKNNRQFDYLEPLP-TAIDYYP-VLTKAIEDYTN YCVTTYKKGLN 273
cry6Aa -YFKKLQDELDNIVDNNSSD-----DAIAKAIKDFKARC GILIKEAKQ 171
cry7Aa LHLALLRDSTLYGDKWGFTQ-----NNIEENYNRQKKRISEYSDHCT KWYNSGLS 243
cry8Aa LHLLLLRDASIFGEEWGF TP-----GEISRFYNRQVQLTAEYSDYCVKWYKIGLD 254
cry10Aa WHLNLLKHAATY YNIWLQN--QGINPSTFNSSNYQGYLKRKIQEYTDYCIQTYNAGLT 265
cry16Aa LHLLLLRD AQIYGDKWWSAR-----ANARDNYYQIQLEKTKEYTEYCINWYNKGLN 259
cry19Ba LHLLLLRDVAIYG-KELGYP-----STDVEFYNEQKYYTEKYSNYCVNTYKSGLE 248
cry24Aa LHL SMLRDAVMYQEGWN LQS-----HINYSKELDDALEDYTN YCVEVYTKGLN 244

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axmi006 NLRDEP-----NMKWSIFNDYRRYMTITVLDTISQFSLYDIKRYRDSIGGIEVKGIKNE 344
cry1Aa RVWGPDS-----RDWVRYNQFRRELTTLVLDIVALFSNYDSRRYP-----IRTVSQ 262
cry1Ac RVWGPDS-----RDWVRYNQFRRELTTLVLDIVALFPNYDSRRYP-----IRTVSQ 262
cry1Ia NLRGTNA-----ESWVRYNQFRDMTLMVLDLVALFPSYDTQMYP-----IKTTAQ 290
cry3Aa1 KLRGSSY-----ESWVNFNRYRREMTLTVLDLIALFPLYDVRLYP-----KEVKTE 306
cry3Ba SLRGSTY-----DAWVKFNRFRRREMTLTVLDLIVLFPPYDVRLYS-----KGVKTE 307
cry4Aa LIKTT PDSNLDGNINWNTYNTYRTKMTTAVLDLVALFPNYDV GKYP-----IGVQSE 325
cry6Aa YEEAAKN-----IVTSLDQFLHGDQKKLEG-----196
cry7Aa RLNGSTY-----EQWINYNRFRREMILMALDLVAVFPFHDPRRYS-----METSTQ 289
cry8Aa KLKGTT S-----KSWLNHYHQFRREMTLLVLDLVALFPNYDTHMYP-----IETTAQ 300
cry10Aa MIRTNT-----NATWNMYNTYRLEMTLTVLDLIAIFPNYDPEKYP-----IGVKSE 311
cry16Aa DFRTAGQ-----WVNFNRYRREMTLTVLDIISMFPYIDARLYPT-----EVKTE 303
cry19Ba SKKQIG-----WSDFNRYRREMTLSVLDIVALFPLYDTGLYPSKDGK---IHVKA E 296
cry24Aa ALRGSTA-----IDWLEFN SFRDMTLMVLDLVAIFPNYNPVRY P-----LSTKIS 290

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Fig. 1B

axmi006	LTREIYTTTEINFDRLPQLR-----VQPNLATMEYNLTRASFKLFSFLEQFIFYTENTN	397
cry1Aa	LTREIYTNPVLENFDGS-----FRG--MAQRIEQNIRQPHLMDILNSITIYTDVHR	311
cry1Ac	LTREIYTNPVLENFDGS-----FRG--SAQGIERSIRSPHLMDILNSITIYTDHR	311
cry1Ia	LTREVYTDAIGTVHPPHSFTSTTTWYNNNAPSFSFAIEAAVVRNPHLLDFLEQVTIYSLLS-	349
cry3Aa1	LTRDVLTDPIVGVNNLR-----GYGTTFSNIEN-YIRKPHLFDYLHRIQFHTRFQP	356
cry3Ba	LTRDIFTDPIFTLNLQ-----EYGPFTSSNIEN-SIRKPHLFDYLRGIEFHTRLRP	357
cry4Aa	LTREIY-QVLNFEESEPYK-----YYDFQYQEDSLTRR-PHLFTWLDSLNFYEKAQT	374
cry6Aa	-----VINIQKRLKEVQTALN-----	212
cry7Aa	LTREVYTDPVLSISNP-----DIGPSFSQMENTAIRTPLVDYLDLYIYTSKYK	340
cry8Aa	LTRDVYTDPIAFNIVTSTGFCNPWSTHSGILFYEVENNVIKPHLFDILSSVEINTSRGG	360
cry10Aa	LIREVYTNVNSDT-----FRITELNGLTRN-PTLFTWINQGRFVYTRNSR	356
cry16Aa	LTREIYSDVINGEIYGLMT-----PYFSFEKAESLYTRA-PHLFTWLKGFRTVNSIS	355
cry19Ba	LTREIYSDVINDHVGMLV-----PYISFEHAESLYTRR-PHAFTWLKGFRTVNSIN	348
cry24Aa	LSRKIYTDVPVGRDTPSPFG-DWTNTGRTLAFNDLREVTDSPLVKWLGDMTIYTGAI	349

axmi006	FGN-----RLVGISNRDAPTYSNTITET--LYGERTGSPTTKTIRPFESYKVSIVTD	447
cry1Aa	GFN-----YWSGHQITASPVGFGSGPEFAFPLFGNAGNAAPP-VLVS LTGLGIFRTLS	362
cry1Ac	GYG-----YWSGHQIMASPVGFGSGPEFTFPLYGTMGNAAPQQRIVAQLGQGVYRTLS	363
cry1Ia	-RWSNTQYMN-MWGGHKLEFRTIGGTNLISTQ---GSTNTSINPVTLPTSRDVRTES	403
cry3Aa1	GYGNDTSFN--YWSGNYVSTRPSIGSNDIITSPFYGNKSSEPVQ--NLEFNGEKVYRAVA	412
cry3Ba	GYSGKDSFN--YWSGNYVETRPSIGSNDITSPFYGDKSIEPIQ--KLSFDGQKVYRTIA	413
cry4Aa	TPN-----NFFTSHYNNMFHYTLDNISQKSSVFGNHNVTDKLKS LG-LATNIYIFLLN	425
cry6Aa	-----QAHGESSPAHKELLEKVKNLKTTLERTIKAEQDLEKKVEY	252
cry7Aa	AFSHEIQPDLFYWSAHKVSFKKSEQSN-LYTTGIYKGTSGYISS-GAYSFHGNDIYRTLA	398
cry8Aa	ITLNNDAYIN-YWSGHTLKYRRTADSTVYTA---NYGRITSEKNSFALEDRIFEINS	415
cry10Aa	DIL-----DPYDIFSFTGNQMAFTHTNDNRNIWGAHVGNIIISQDTSKVPFYRNKP	408
cry16Aa	YWT-----FLSGGQNKYSYTN-NSSINEGSFRGQD TDYGGTSS TINIPSN SYVYNLW	406
cry19Ba	SWT-----FLSGGENRYFLTHGEGTIYNGPFLGQDTEYGGTSSYIDISNNSSIYNLW	400
cry24Aa	SYRP-----TSPGDRIGVWYGNINAFYHTGRTDVVMFRQTGDTAYEDPSTFISNILYD	402

axmi006	RQSPVPVSP-IQPHFIINQIELYLNSSNNTLKYSAGGS--LSNYQNTTFFQFPRKKDCNL	504
cry1Aa	SP---LYRRIILGSGPNNQELFVLGDGTEFSFASLTTLNLPSTIYRQRTVDSL DVI PPQDN	419
cry1Ac	ST---LYRRPFN-IGINNQQLSVLDGTEFAYG-TSSNLPSAVYRKSGTVDSLDEI PPQNN	418
cry1Ia	LAGLNLFLTQPVNGVPRVDFHWKFVTHPIASDNFYYPGYAGIG--TQLQDSENELPPEAT	461
cry3Aa1	NTNLAVWP-SAVYSGVTKEFVSQYNDQTDASTQTYDSKRN-VGAV-SWDSIDQLPPETT	469
cry3Ba	NTDIAAFPDGKIYFGVTKVDFSQYDDQKNETSTQTYDSKRY-NGYLGAQDSIDQLPPETT	472
cry4Aa	VISLDNKY-LNDYNNISKMDFFITNGTRLLEKELTAGSGQITYDVNKNIFGLPILKRREN	484
cry6Aa	SFLLGPLLG FVVYEILENTAVQHIKNQIDEIKKQLDSAQHDLDRDVKIIGMLNSINTDID	312
cry7Aa	APSVVVYPYTQN-YGVEQVEFYGVKGHVHYRGDNKYDL-----TYDSIDQLPPDGE	448
cry8Aa	TVANLANYYYQKAYGVPGSWFHMKRGTSSTTAYLYSKTHTALQCTQVYESSDEIPLDRT	475
cry10Aa	IDKVEIVR-HREYSDIIEYMIFFSNSS- VFRYSSNSTIENNYKRTDSYMI PKQTWKN-	464
cry16Aa	TENYEIYPWGD PVNITKMNFSVTDNNSKELIYGAHRTNKPVVRTDFDFTLNKEGTEL-	465
cry19Ba	TKNYEWIYPWTD PVNITKINFSITDNSNSES IYGAERMNKPTVRTDFNLLNRAGNGP-	459
cry24Aa	DIYKLDLRAAAVSTIQGAMDTTFGVSSSRFFDIRGNQLYQSNKPYPSPLPITITFPGEES	462

Fig. 1C

axmi006	VIDPGCSPNFNNYSHILSHFSLFTYSYVIGLQLQILDGTGVLGWTSSVDRYNAISDKIIT	564
cry1Aa	S-----VPPRAGFSHRLSHVTMLSQAAG---AVYTLRAPTFSWQHRSAEFNIIIPSSQIT	471
cry1Ac	N-----VPPRQGFSHRLSHVSMFRSGFSNS-SVSIIRAPMFSWIHRSAEFNIIASDSIT	472
cry1Ia	G-----QPNYESYSHRLSHIGLISASHVK--ALVYS-----WTHRSADRTNTIEPNSIT	508
cry3Aa1	D-----EPLEKGYSHQLNRYVMCFMQGSR-----GTIPVLTWTHKSVDFNMIDSKKIT	518
cry3Ba	D-----EPLEKAYSHQLNYAECFLMQDRR-----GTIPFFTWTTHRSVDFNTIDAEEKIT	521
cry4Aa	QGNPTLFPTYDNYSHILSFIKSLIPATY-----KTQVYTFAWTHSSVDPKNTIYTHLTT	539
cry6Aa	N-----LYSQGQEAIKVFQKLOG-----IWATIGAQIENLRTTSLQE	349
cry7Aa	-----PIHEKYTHRLCHATAIFKSTP---DYDNATIPIFSWTHRSAEYNNRIYPNKIT	498
cry8Aa	-----VPVAESYSHRLSHITSHSFSKNG--SAYYGSFPVFWTHTSADLNNTIYSDKIT	527
cry10Aa	-----EEYGHTLSYIKTDNYIFSVVR---ERRRVAFSWTHTSVDQNTIDLDNIT	511
cry16Aa	-----AKYNDYNHILSYMLINGETFGQ----KRHGYSFAFTHSSVDPNNTIAANKIT	513
cry19Ba	-----TTYNDYNHILSYMLINGETFGQ----KRHGYSFAFTHSSVDRYNTIVDPKIV	507
cry24Aa	S-----EGNANDYSHLLCDVKILQEDSSN-ICEGRSSLLSHAWTHASLDRNNTILPDEIT	516
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axmi006	MIPAIKGNLDTNSKVIIEGPGHTGGNLVYLSQGR-----LEITCETPNSTQSYFIRL	617
cry1Aa	QIPLTKSTNLGSGTSVVKPGPGFTGGDILRRTSPGQISTLRVNITAPL-----SQRYRVRI	526
cry1Ac	QIPAVKGNFLFNG-SVISGPGFTGGDLVRLNSSGNNIQNRGYIEVPIHFPSTSTRYRVRI	531
cry1Ia	QIPLVKAFNLSSGAADVVRGPGFTGGDILRRTNTGTFGDIRVNINPPF-----AQRYRVRI	563
cry3Aa1	QLPLVKAYKLQSGASVVAGPRFTGGDIIQCTENG----SAATYVTP-DVSYSQYRARI	573
cry3Ba	QLPVVKAYALSSGASIIIEGPGFTGGNLLFLKSSN---SIAKFVTLNSAALLQRYRVRI	578
cry4Aa	QIPAVKANSLGTASKVVQPGPGHTGGDLIDFKDH-----FKITCQHSNFQQSYFIRI	590
cry6Aa	VQSDDDADEIQIELEDASDAWLVAQEAR-----DFTLNAYSTNSRQNLPI	395
cry7Aa	KIPAVKMYKLDDPSTVVKPGPGFTGGDLVKGSTGYIGDIKATVNSPL-----SQRYRVRI	553
cry8Aa	QIPAVKGDMLYLGGSVVQPGPGFTGGDILKRTNPSILGTFAVTVNGSL-----SQRYRVRI	582
cry10Aa	QIHALKALKVSSDSKIVKPGPGHTGGDLVILKDSMD-----FRVRFLKN-VSRQYQVRI	563
cry16Aa	QIPVVKASSINGSISIEKPGPGFTGGDLVKMRADSG-----LTMRFKAELLDKKYRVRI	566
cry19Ba	QIPAVKTNLVG--ANIIKPGPGHTGGDLLKLEYERF-----LSLRIK-LIASMTFRIRI	557
cry24Aa	QIPAVTAYELRGNSSVVGPGSTGGDLVKMSYHS-----VWSFKVYCSELKNYRVRI	568
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axmi006	RYATNGAGNTLPNISLTIPGVIGIPPQRLNNTFSGTNYNNLQYGDGFGYFQFPSTVTLPLN	677
cry1Aa	RYASTTNLQFHTSIDGRPINQGNFS-----ATMSSGSNLQSGSFRTVGFTTTFNFSNG	579
cry1Ac	RYASVTPIHLNVNWGNSSIFSNTVP-----ATATSLDNLQSSDFGYFESANAFTSSLG	584
cry1Ia	RYASTTDLQFHTSINGKAINQGNFS-----ATMNRGEDLDYKTFRTVGFTTTFPSFLDV	616
cry3Aa1	HYASTSQITFTLSLDGAPFNQYYFD-----KTINKGDTLTYNSEFNLASFSTPFELSG-	625
cry3Ba	RYASTTNLRLFVQNSNNDFLVIYIN-----KTMNIDGDLTYQTFDFATSNSNMGFSGD	631
cry4Aa	RYASNGSANTRAVINLSIPGVAELG-MALNPTFSGTDYTNLKYKDFQYLEFSNEVKFAPN	649
cry6Aa	NVISDSCNCSTTNMTSNQYSN-----PTTNMTSNQYMISHEYTSLPNNFMLSRN	444
cry7Aa	RYATNVSGQFNVIYINDKITLQTKFQN---TVETIGEGKDLTYGSFGYIEYSTTIQFPDE	609
cry8Aa	RYASTTDFEFTLYLG-DTIEKNRFN-----KTMNGASLTYETFKFASFITDFQFRET	634
cry10Aa	RYATNAPKTTVFLTGTIDTISVELPS---TTSRQNPATDLTYADFGYVTFPRTVPNKTF	619
cry16Aa	RYKCNYSKILIRKWKGEYIQQOI-----HNISPTYGAFSYLESFTITTTENIFDLTM	620
cry19Ba	RYASNISGQMMINIGYQNPTYFNII-----PTTSRDYTELK-FEDFQLVDTSYIYSGGP	610
cry24Aa	RYASHGNCQFLMKRWPSTGVAPRQWAR---HNVQGTFSNSMRYEAFKYLDIFTITPEENN	625

Fig. 1D

axmi006	R--NIPFIFNRADVSN-SILIIDKIEFIPITSSMHQNRKQKLETIQTKINTFFTNHTKT	734
cry1Aa	S---SVFTLSAHVFNSGNEVYIDRIEFVPAEVTFEA---EYDLERAQKAVNELFTSSNQI	633
cry1Ac	N-----IVGVRNFSGTAGVIIDRFEFIPVTATLEA---EYNLERAQKAVNALFTSTNQL	635
cry1Ia	Q---STFTIGAWNFSGNEVYIDRIEFVPVEVTYEA---EYDFEKAQEKVTALFTSTNPR	670
cry3Aa1	----NNLQIGVTGLSAGDKVYIDKIEFIPVN-----	652
cry3Ba	T---NDFIIGAESFVSNEKIYIDKIEFIPVQ-----	659
cry4Aa	Q--NISLVFNRSVDVYTNNTVLIDKIEFLPITRSIREDREKQKLETVQQIINTFYANPIKN	707
cry6Aa	S-----NLEYKCPENNFMIIYWYNNSDWYNNSDWYNN-----	475
cry7Aa	H---PKITLHLSDLSSNNSSFYVDSIEFIPVDVNYAE---KEKLEKAQKAVNTLFTE-GRN	662
cry8Aa	Q---DKILLSMGDFSSGQEVYIDRIEFIPVDETYEA---EQDLEAAKKAVNALFTNTKD-	687
cry10Aa	EGEDTLMTLYGTPNHSYNIYIDKIEFIPITQSVLDYTEKQNIKTQKIVNDLFVN----	675
cry16Aa	E-VTYPYGRQFVEDIPS--LILDKIEFLPTN-----	648
cry19Ba	S-ISS--NTLWLDNFSNGPVIIDKIEFIPLGITLNAQAGYDITYDQANGMYHQYNSNGY	667
cry24Aa	F-----AFTIDLES GGDLFIDKIEFIPVSGSAFEYEGKQNIKTQKAVNDLFIN----	674
	: ::	
axmi006	L-----	735
cry1Aa	GLKTDVTDYHIDQVSNLVECLSDEFCLDEKQELSEKVKHAKRLSDERNLLQDPNFRGINR	693
cry1Ac	GLKTNVTDYHIDQVSNLVTYLSDEFCLDEKRELSEKVKHAKRLSDERNLLQDSNFKDINR	695
cry1Ia	GLKTDVKDYHIDQVSNLVESLSDEFYLDEKRELFEIVKYAKQLHIERNM-----	719
cry3Aa1	-----	
cry3Ba	-----	
cry4Aa	TLQSELTDYDIDQAANLVECI SEELYPKEKMLLLDEVKNAKQLSQSRNVLQNGDFE----	763
cry6Aa	-----	
cry7Aa	ALQKDVTDYKVDQVSILVDCISGDLYPNEKRELQNLVKYAKRLSYSRNLLDPTFDSINS	722
cry8Aa	GLRPGVTDYEVNQAANLVECLSDDLYPNEKRLLF DAVREAKRLSGARNLLQDPDFQEING	747
cry10Aa	-----	
cry16Aa	-----	
cry19Ba	NYNQEYNTYYQSYNN-----	682
cry24Aa	-----	

Fig. 1E